Figure D-1. Map of Study Area.

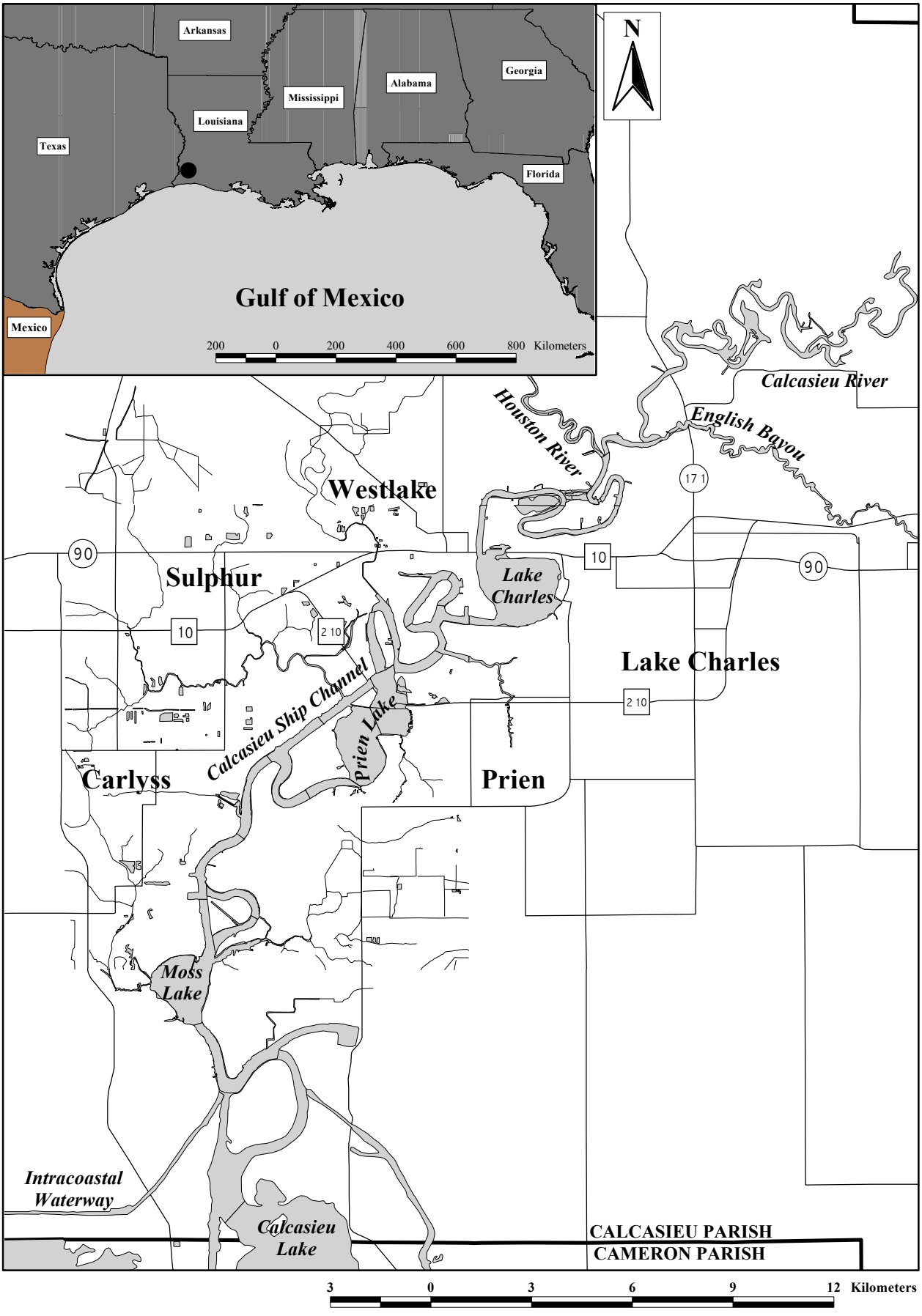

Figure D-2. Map of the Upper Calcasieu River AOC, showing locations of sampling sites for *Ulva fasciata* (UF) toxicity, pore-water chemistry (PWC), and surface-water chemistry (SWC).

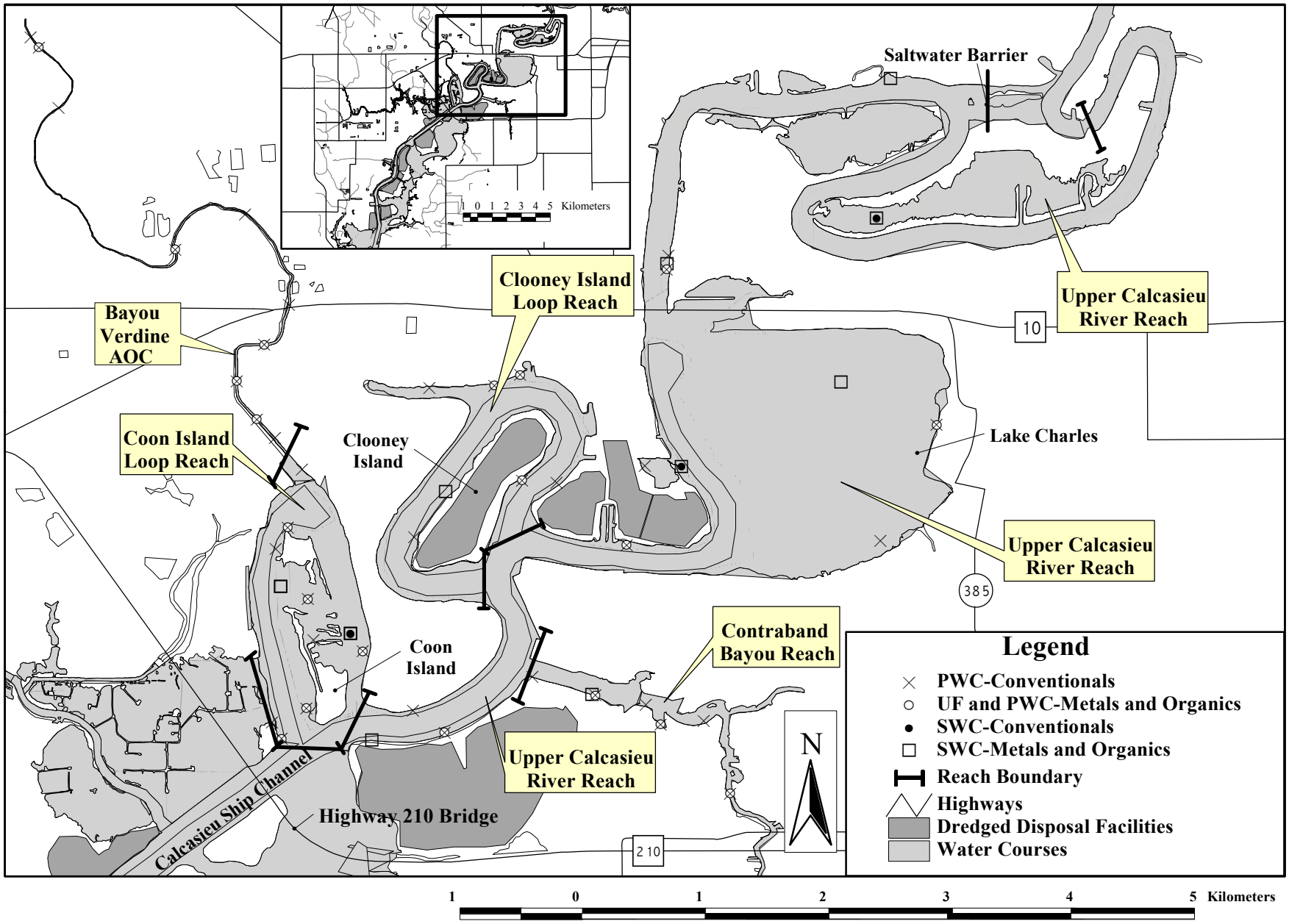

Figure D-3. **Map of the Bayou d'Inde AOC, showing locations of sampling sites for *Ulva fasciata* (UF) toxicity, pore-water chemistry (PWC), and surface-water chemistry (SWC).**

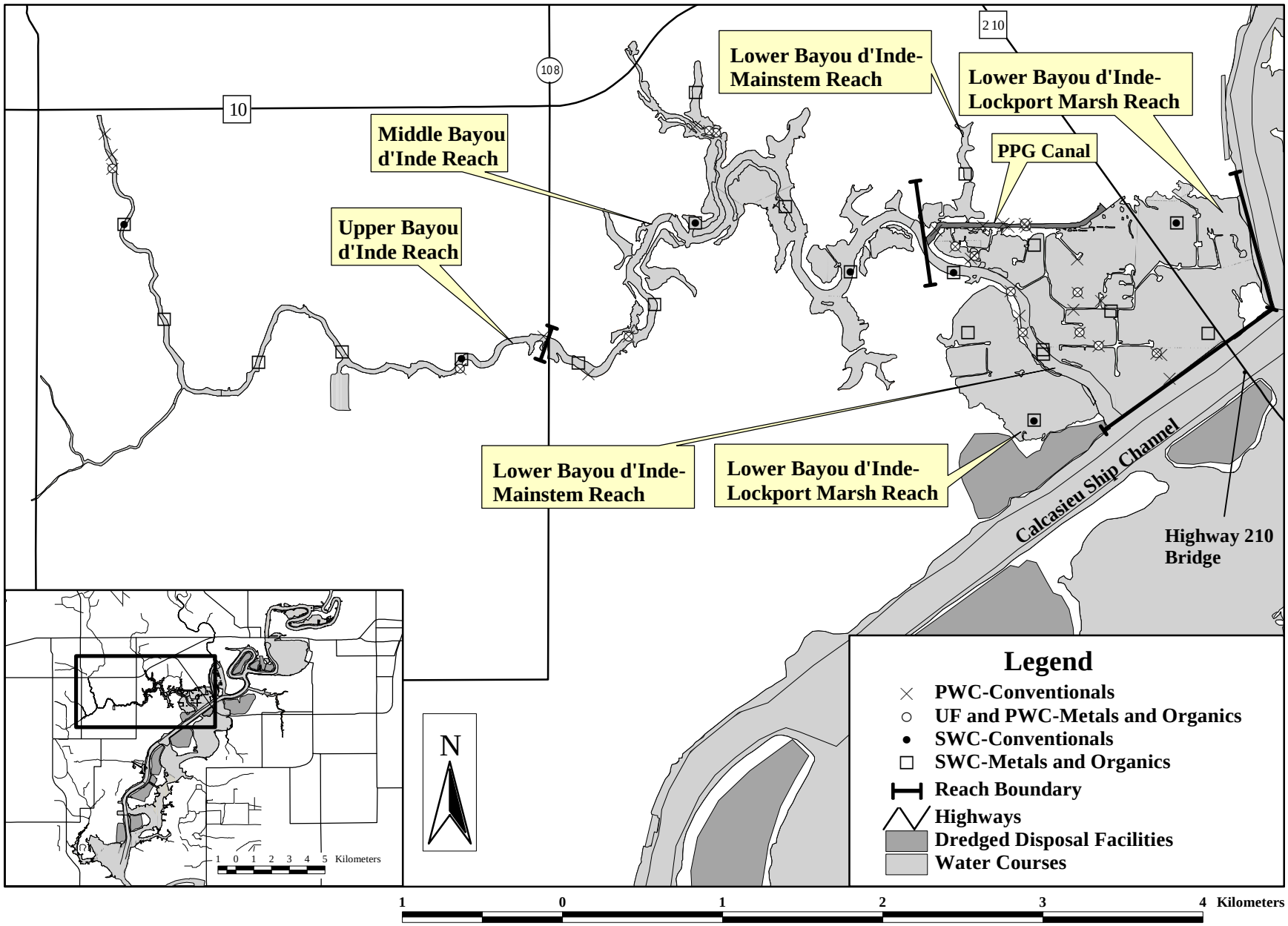

Figure D-4a. **Map of the upper Middle Calcasieu River AOC, showing locations of sampling sites for *Ulva fasciata* (UF) toxicity, pore-water chemistry (PWC), and surface-water chemistry (SWC).**

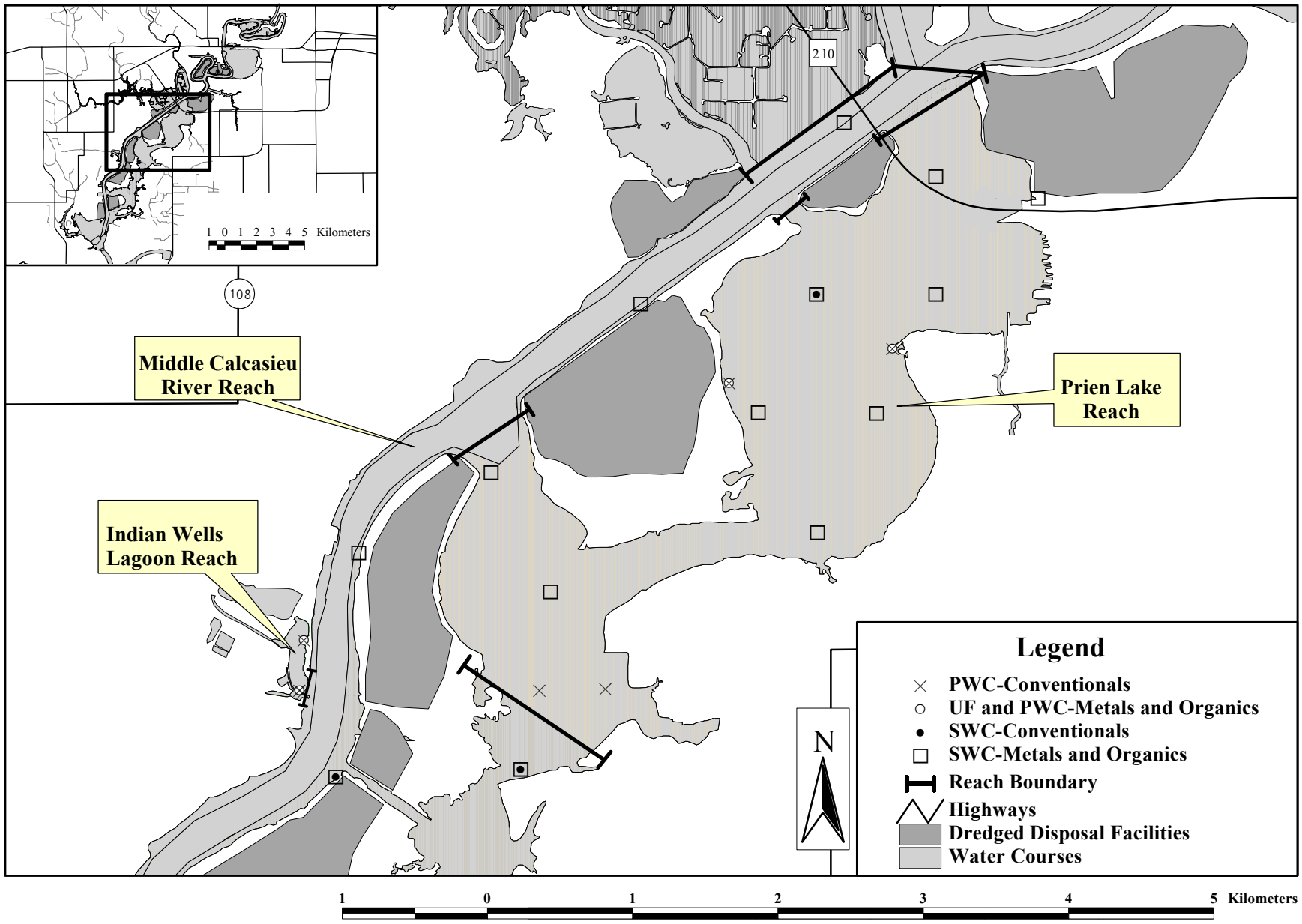

Figure D-4b. **Map of the lower Middle Calcasieu River AOC, showing locations of sampling sites for *Ulva fasciata* (UF) toxicity, pore-water chemistry (PWC), and surface-water chemistry (SWC).**

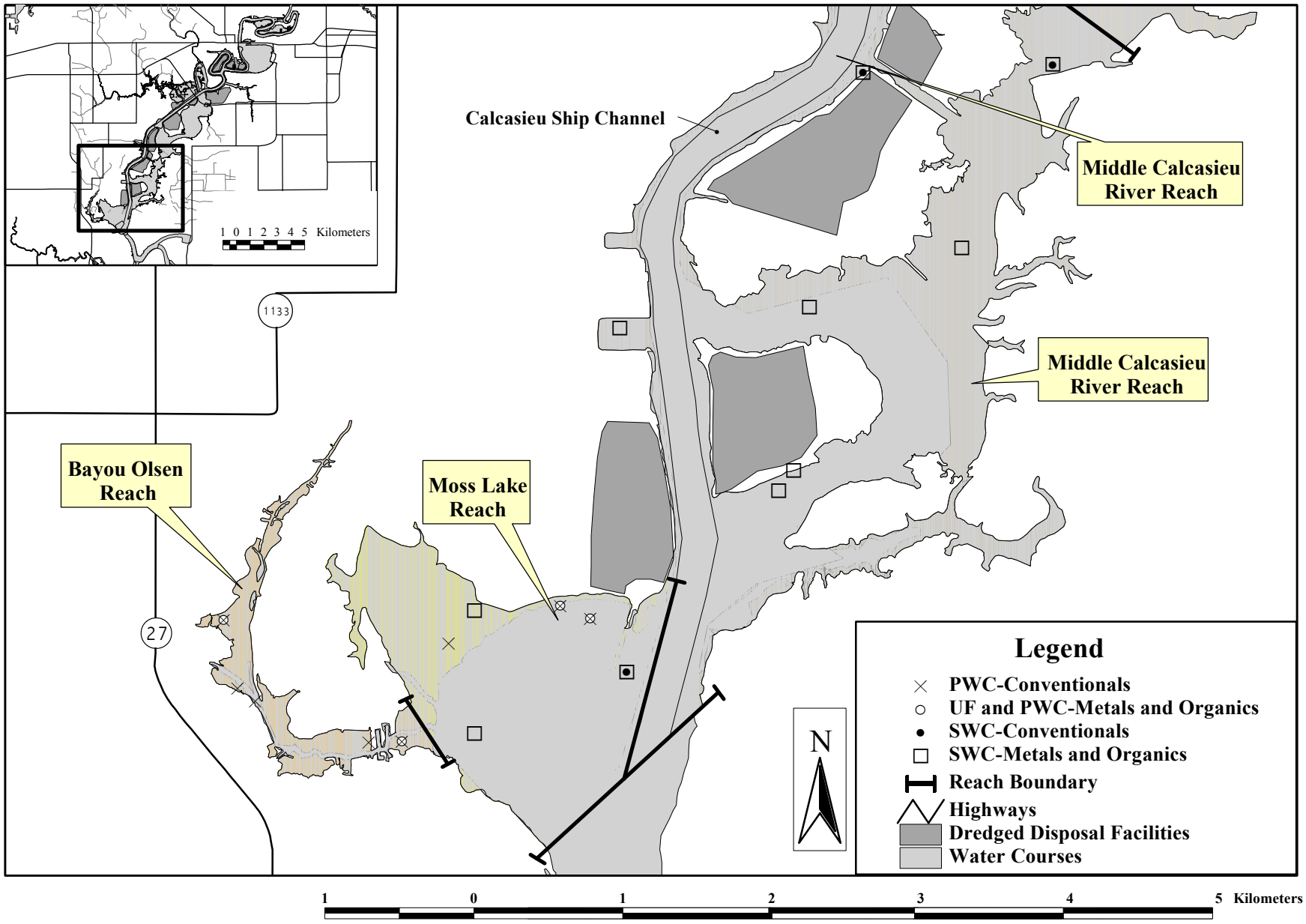

Figure D-5. **Map of the Reference Areas, showing locations of sampling sites for *Ulva fasciata* (UF) toxicity, pore-water chemistry (PWC), and surface-water chemistry (SWC).**

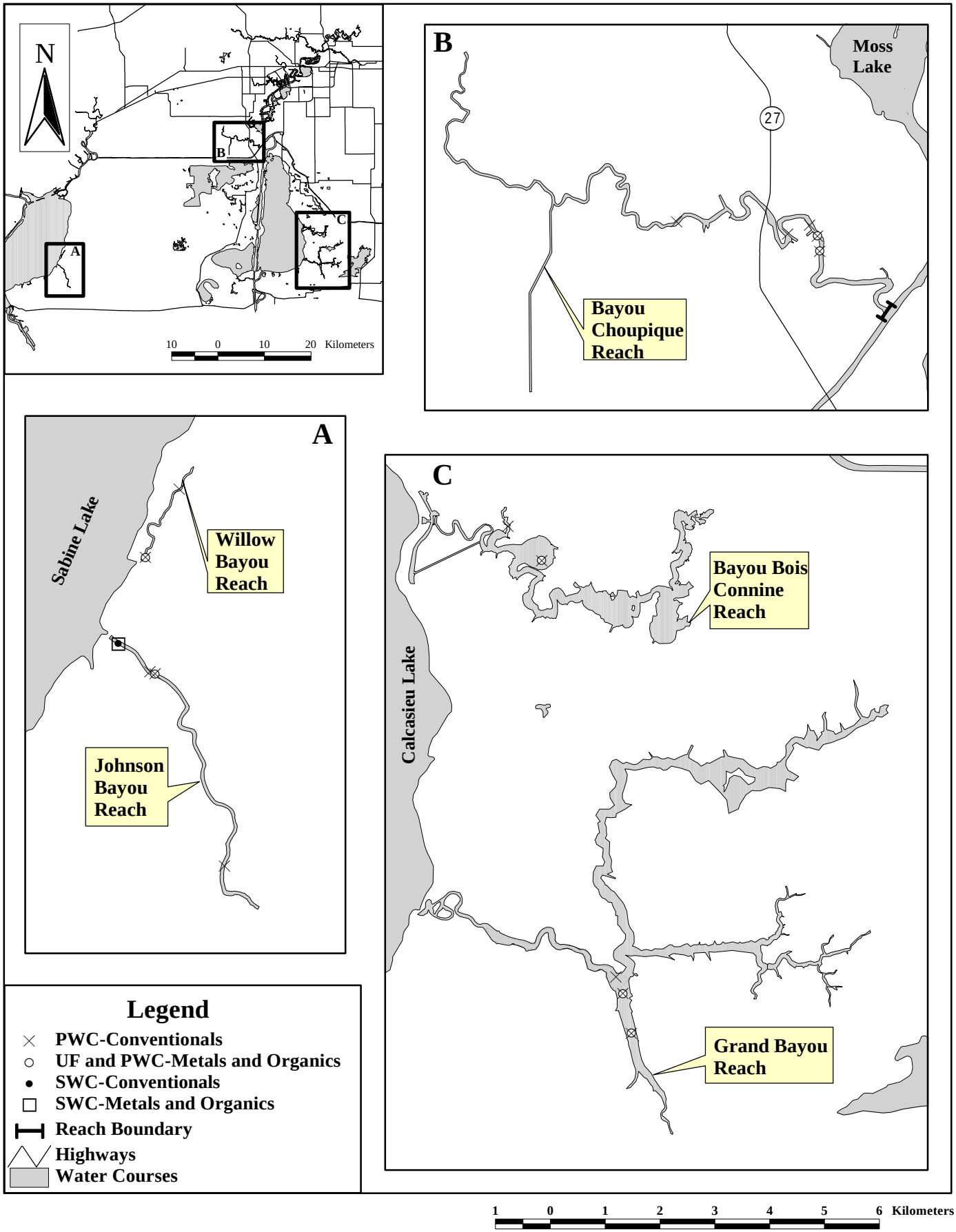

Figure D-6. **Map of the Upper Calcasieu River AOC, showing the reach boundaries and locations of toxic and not toxic samples to the alga, *Ulva fasciata*, in 96-h pore-water toxicity tests (based on the reference envelope approach; endpoints: germling length, cell number, or percent germination).**

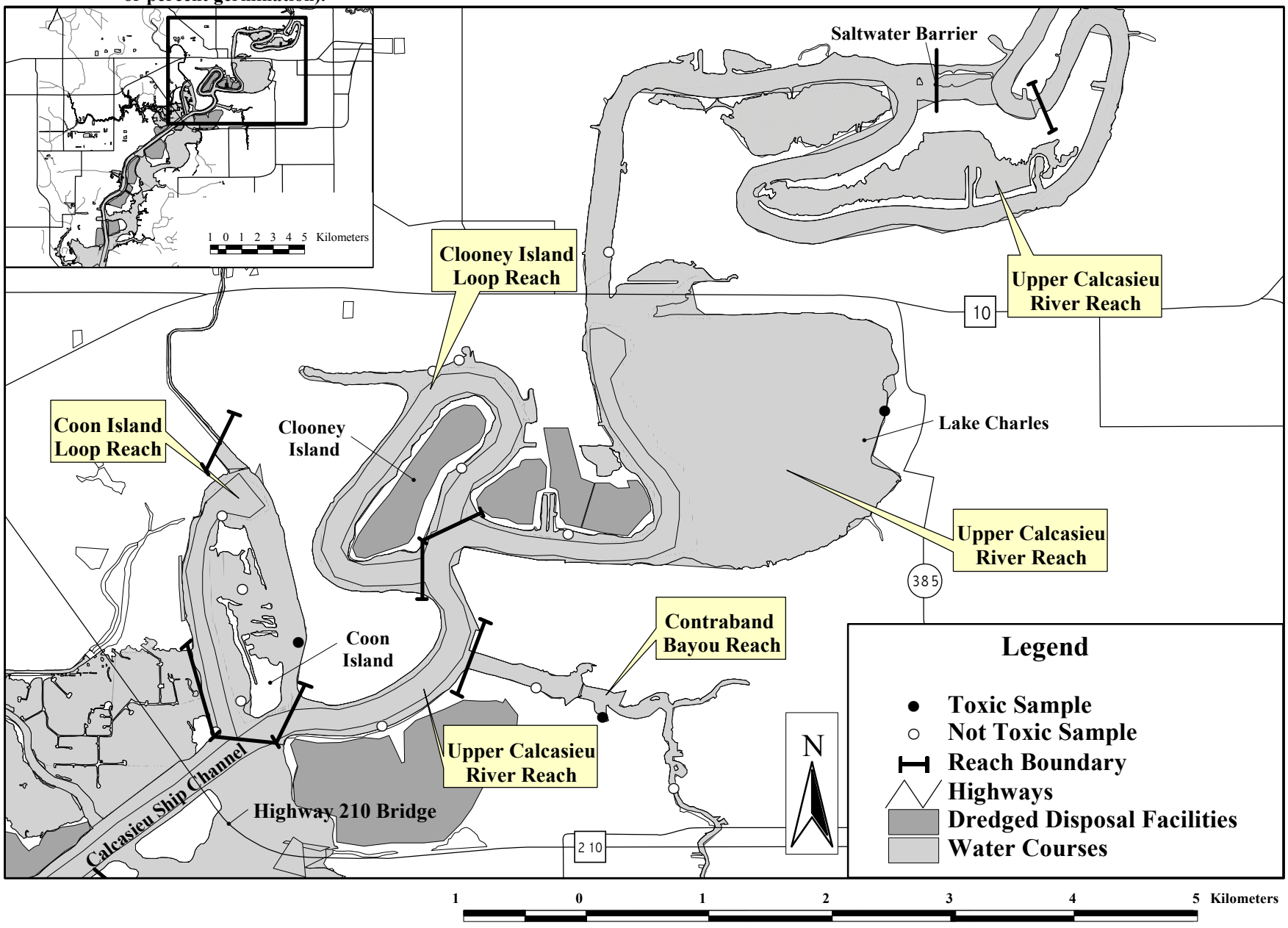

Figure D-7. **Map of the Upper Calcasieu River AOC, showing the reach boundaries and locations of samples that pose low, indeterminate or high risk to aquatic plants, based on the observed magnitude of toxicity (% germination) to the alga, *Ulva fasciata,* in 96-h pore-water toxicity tests (based on the reference envelope approach).**

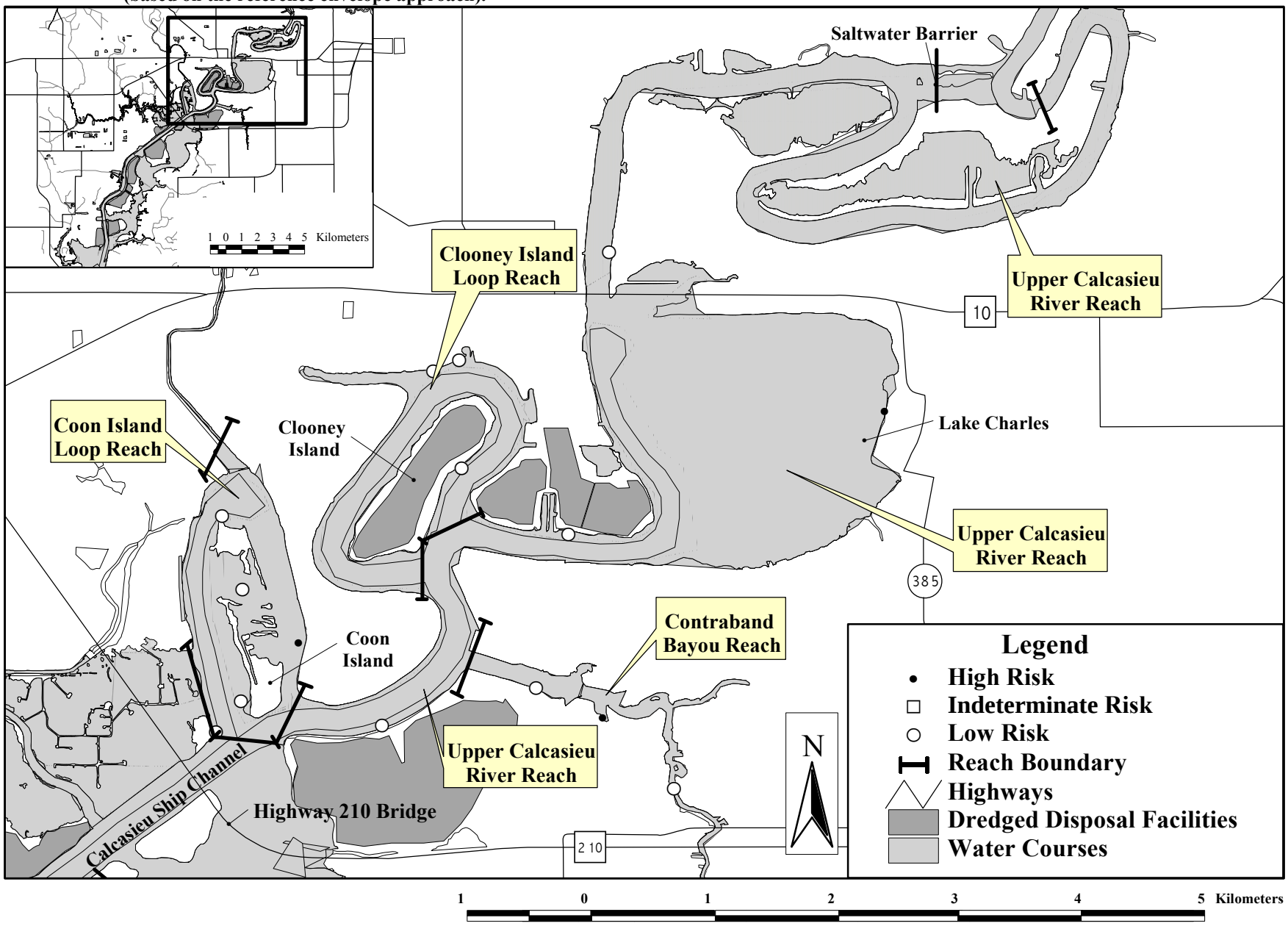

Figure D-8. **Map of the Bayou d'Inde AOC, showing the reach boundaries and locations of toxic and not toxic samples to the alga, *Ulva fasciata*, in 96-h pore-water toxicity tests (based on the reference envelope approach; endpoints: germling length, cell number, or percent germination).**

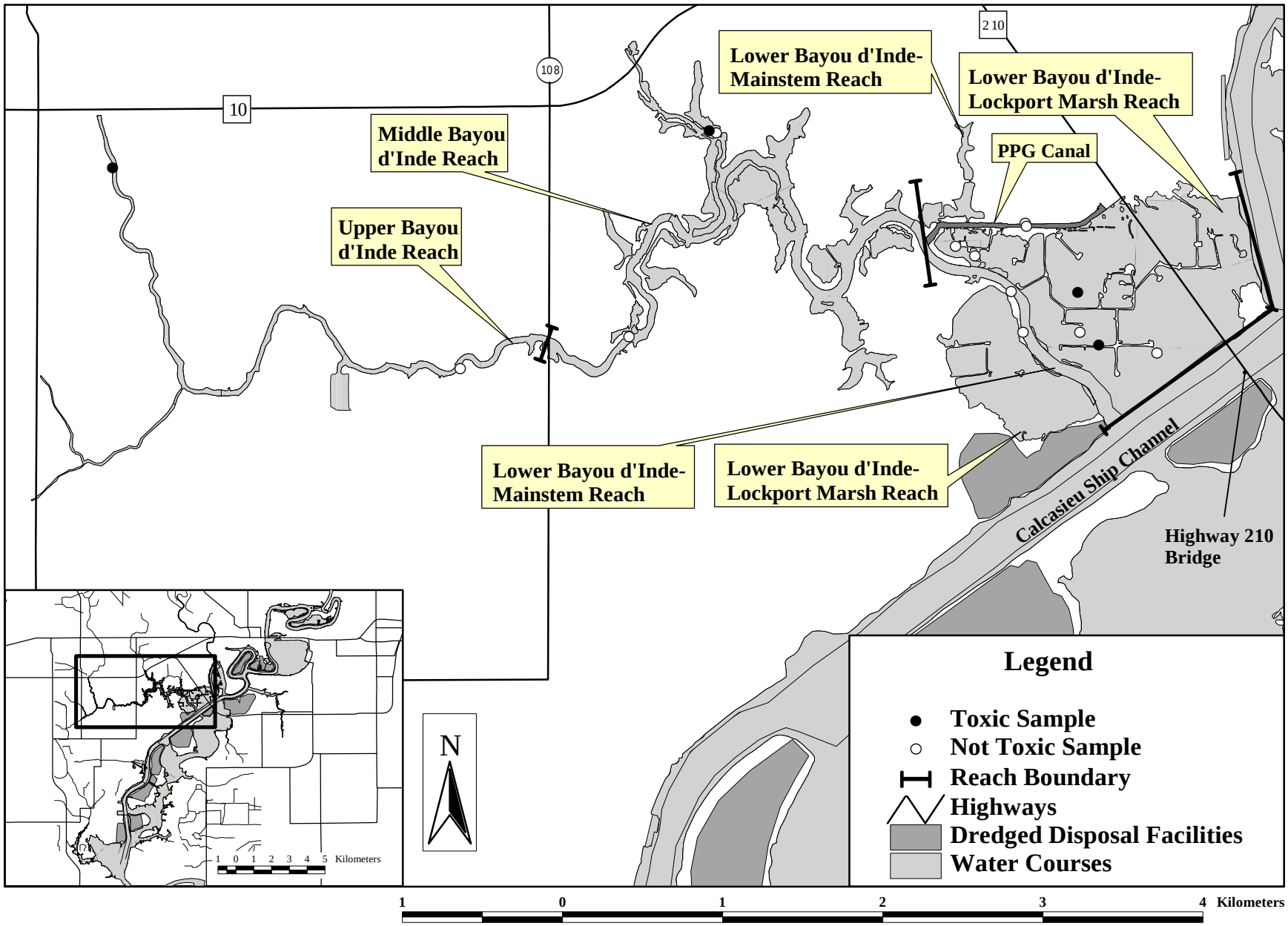

Figure D-9. **Map of the Bayou d'Inde AOC, showing the reach boundaries and locations of samples that pose low, indeterminate or high risk to aquatic plants, based on the observed magnitude of toxicity (% germination) to the alga, *Ulva fasciata*, in 96-h pore-water toxicity tests (based on the reference envelope approach).**

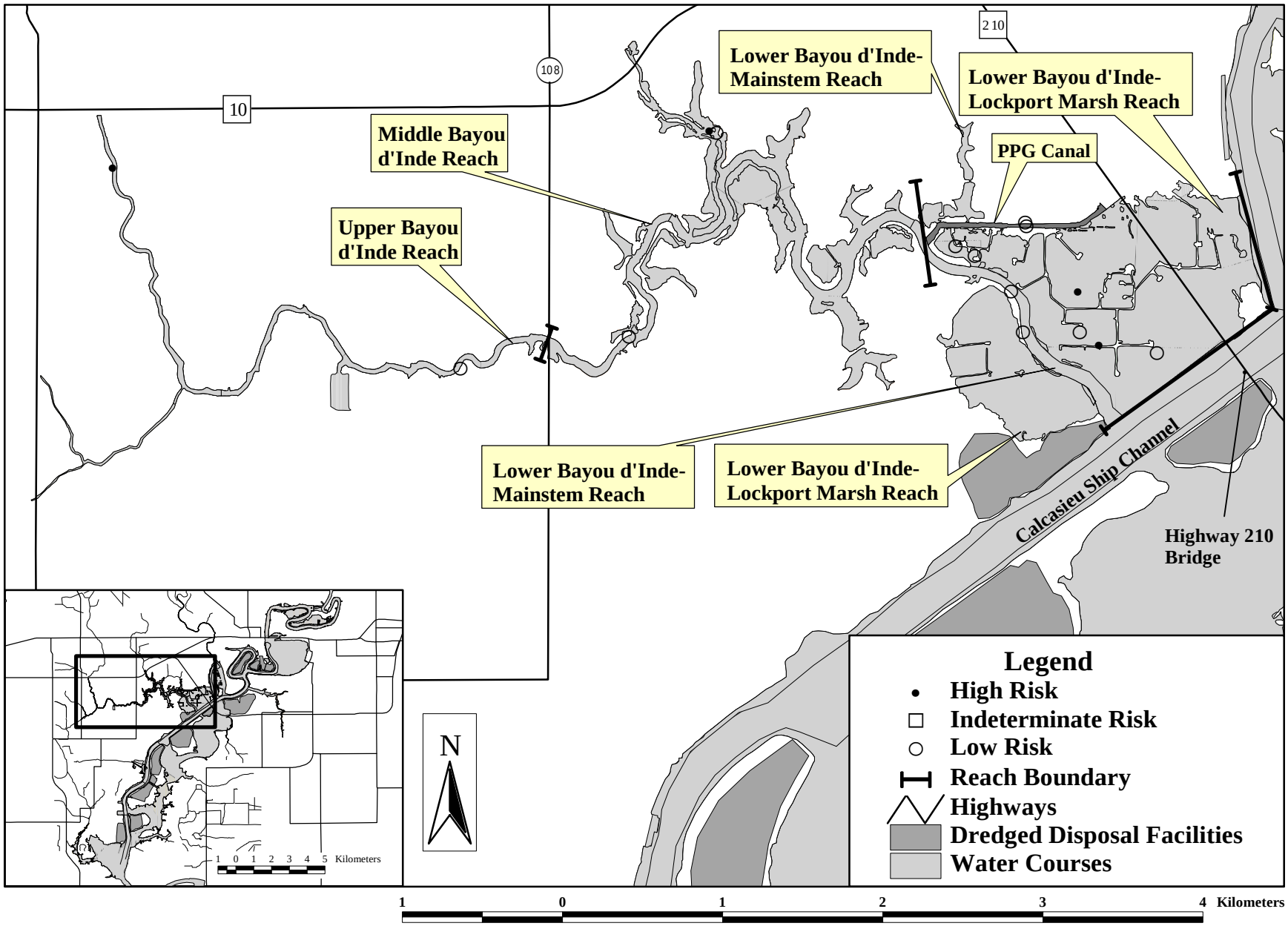

Figure D-10a. **Map of the upper Middle Calcasieu River AOC, showing the reach boundaries and locations of toxic and not toxic samples to the alga, *Ulva fasciata*, in 96-h pore-water toxicity tests (based on the reference envelope approach; endpoints: germling length, cell number, or percent germination).**

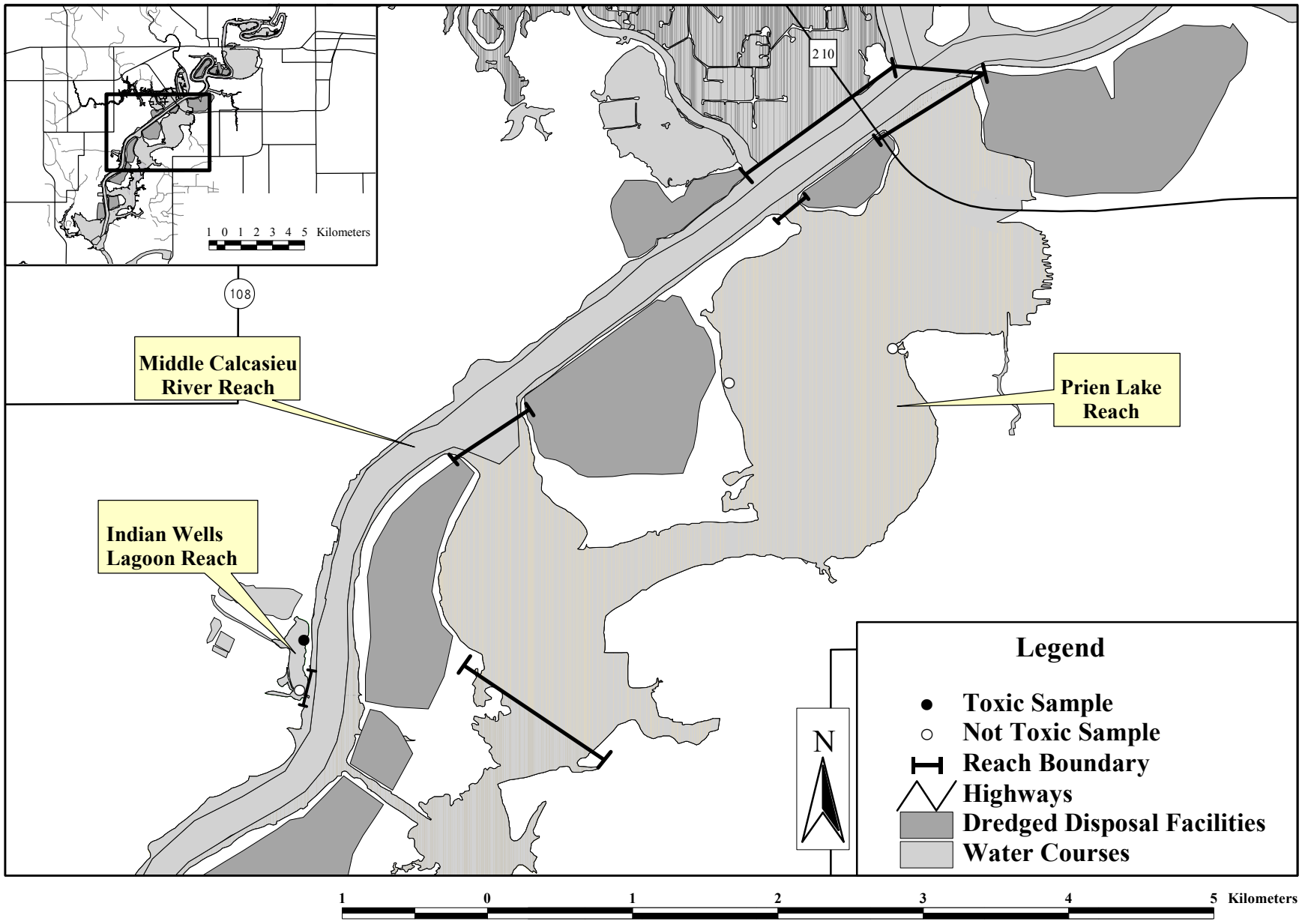

Figure D-10b. Map of the lower Middle Calcasieu River AOC, showing the reach boundaries and locations of toxic and not toxic samples to the alga, *Ulva fasciata*, in 96-h pore-water toxicity tests (based on the reference envelope approach; endpoints: germling length, cell number, or percent germination).

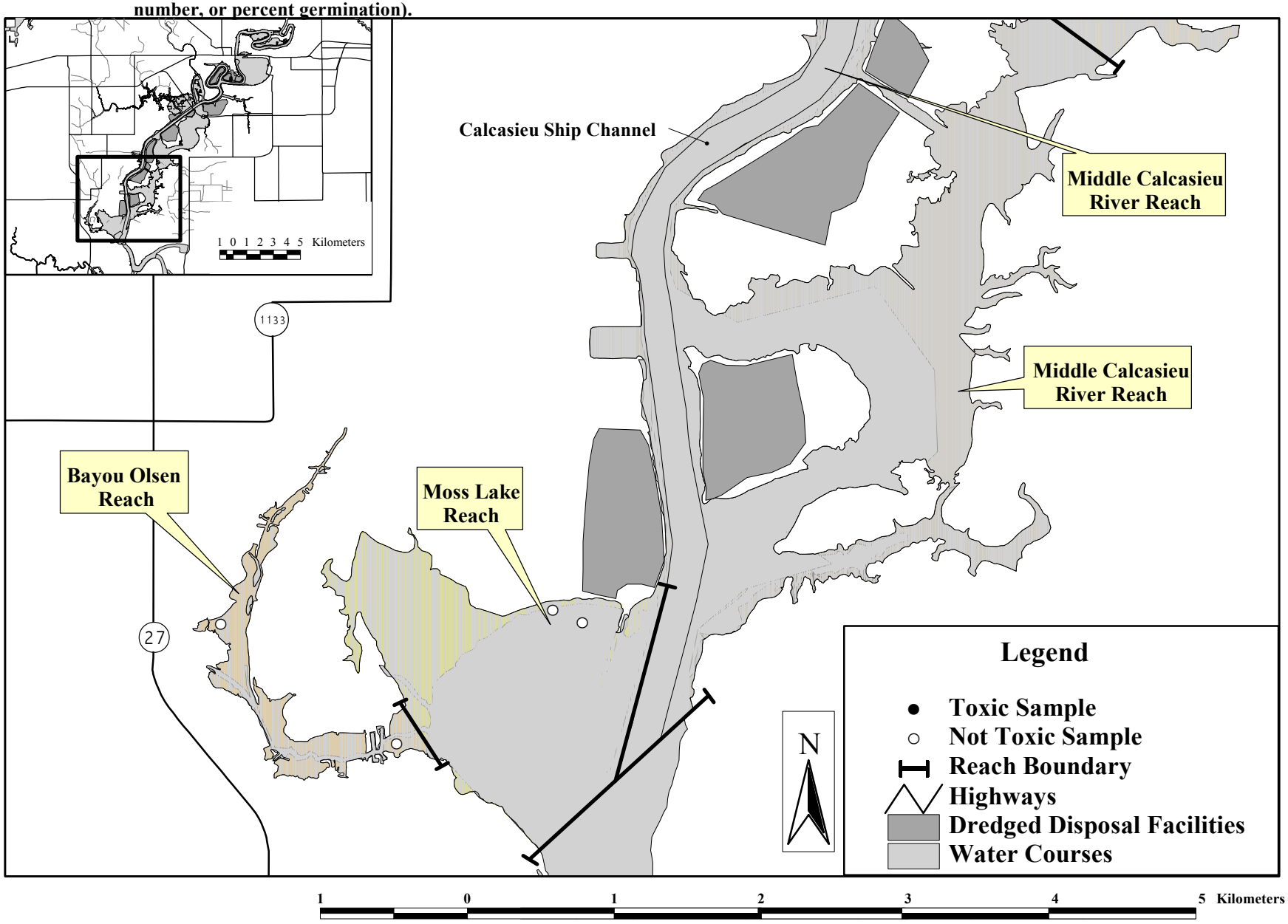

Figure D-11a. **Map of the upper Middle Calcasieu River AOC, showing the reach boundaries and locations of samples that pose low, indeterminate or high risk to aquatic plants, based on the observed magnitude of toxicity (% germination) to the alga, *Ulva fasciata*, in 96-h pore-water toxicity tests (based on the reference envelope approach).**

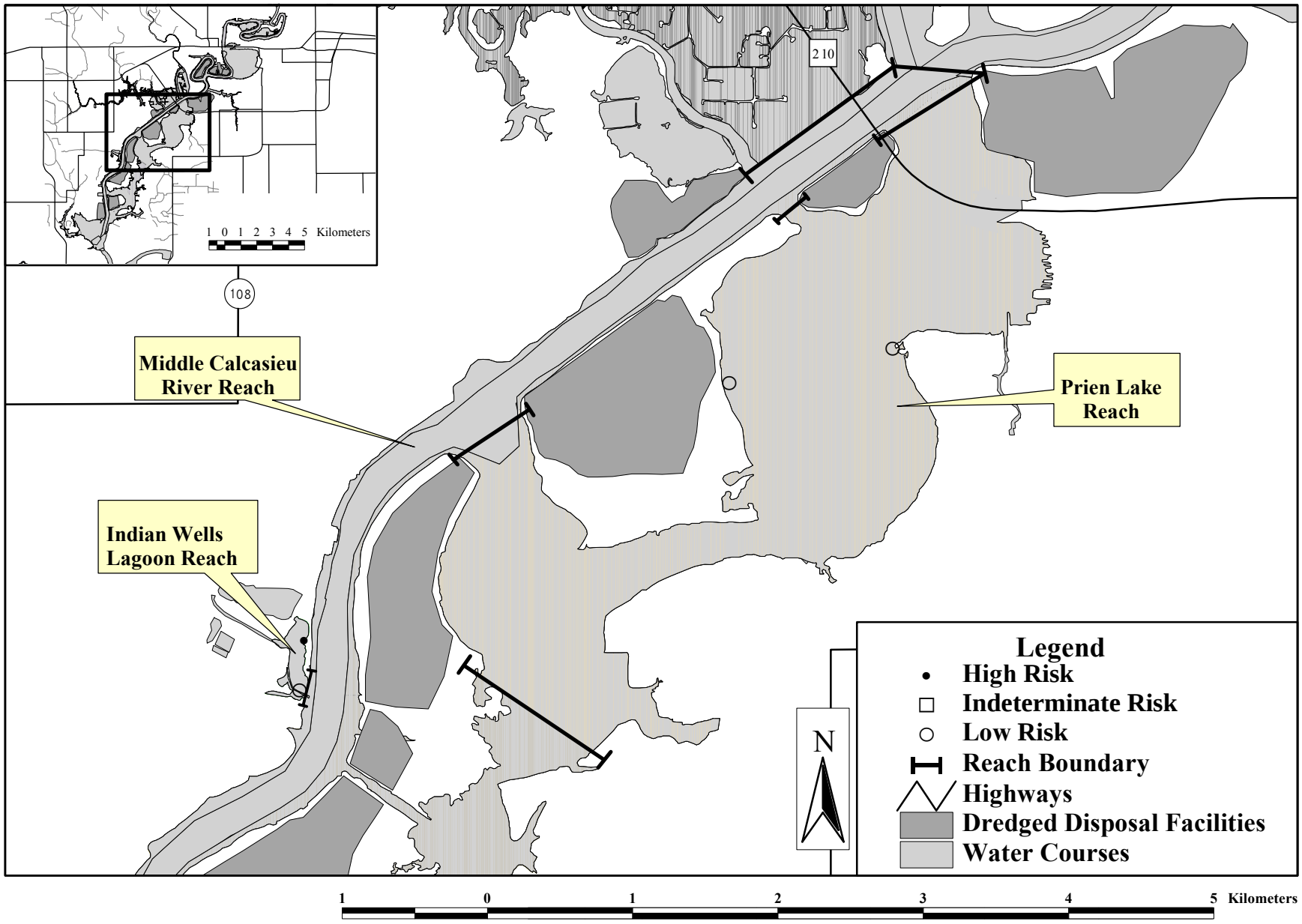

Figure D-11b. Map of the lower Middle Calcasieu River AOC, showing the reach boundaries and locations of samples that pose low, indeterminate or high risk to aquatic plants, based on the observed magnitude of toxicity (% germination) to the alga, *Ulva fasciata*, in 96-h pore-water toxicity tests (based on the reference envelope approach).

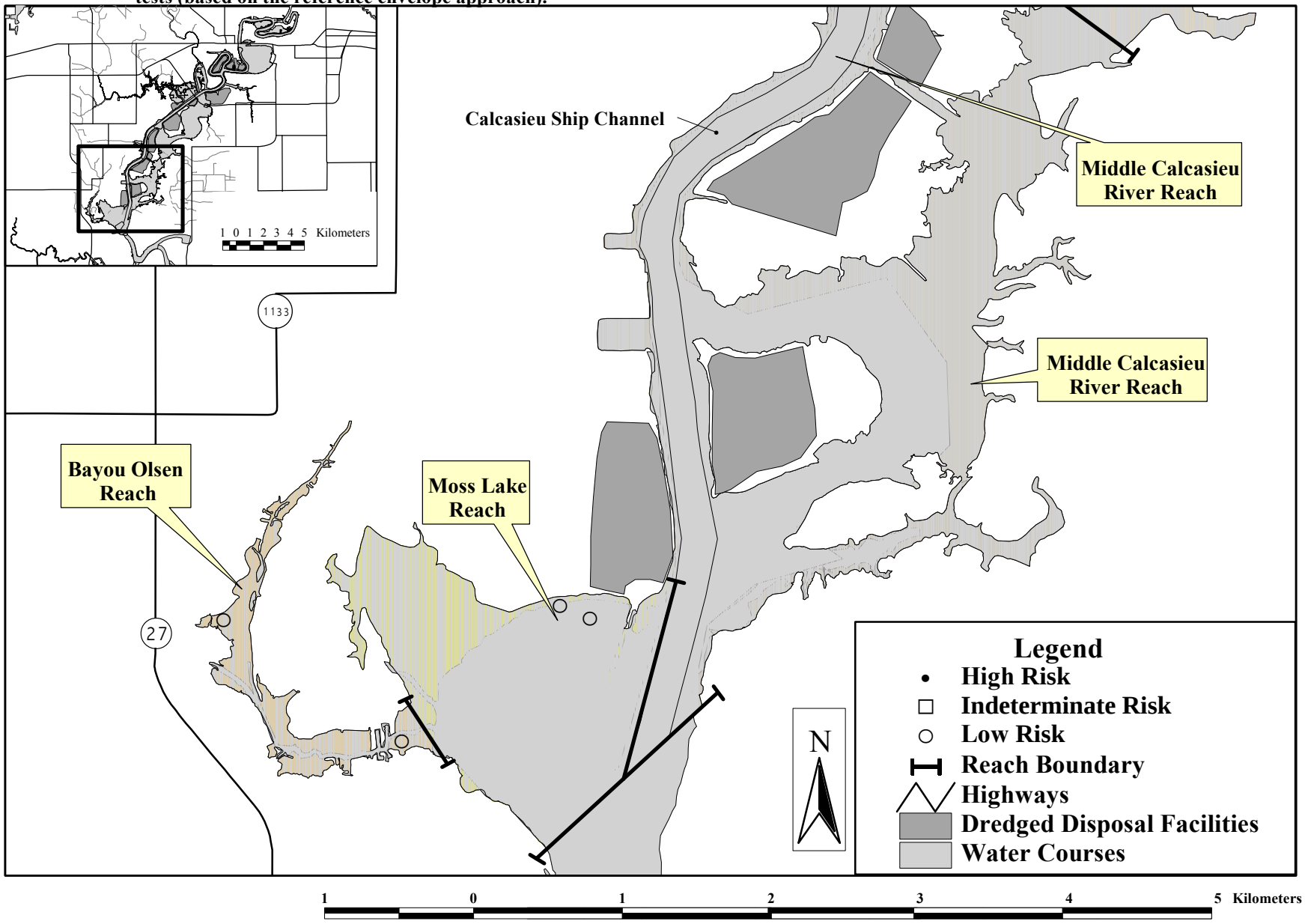

Figure D-12. Map of the Upper Calcasieu River AOC, showing the reach boundaries and locations of samples that pose low, indeterminate or high risk to aquatic plants considering multiple lines of evidence.

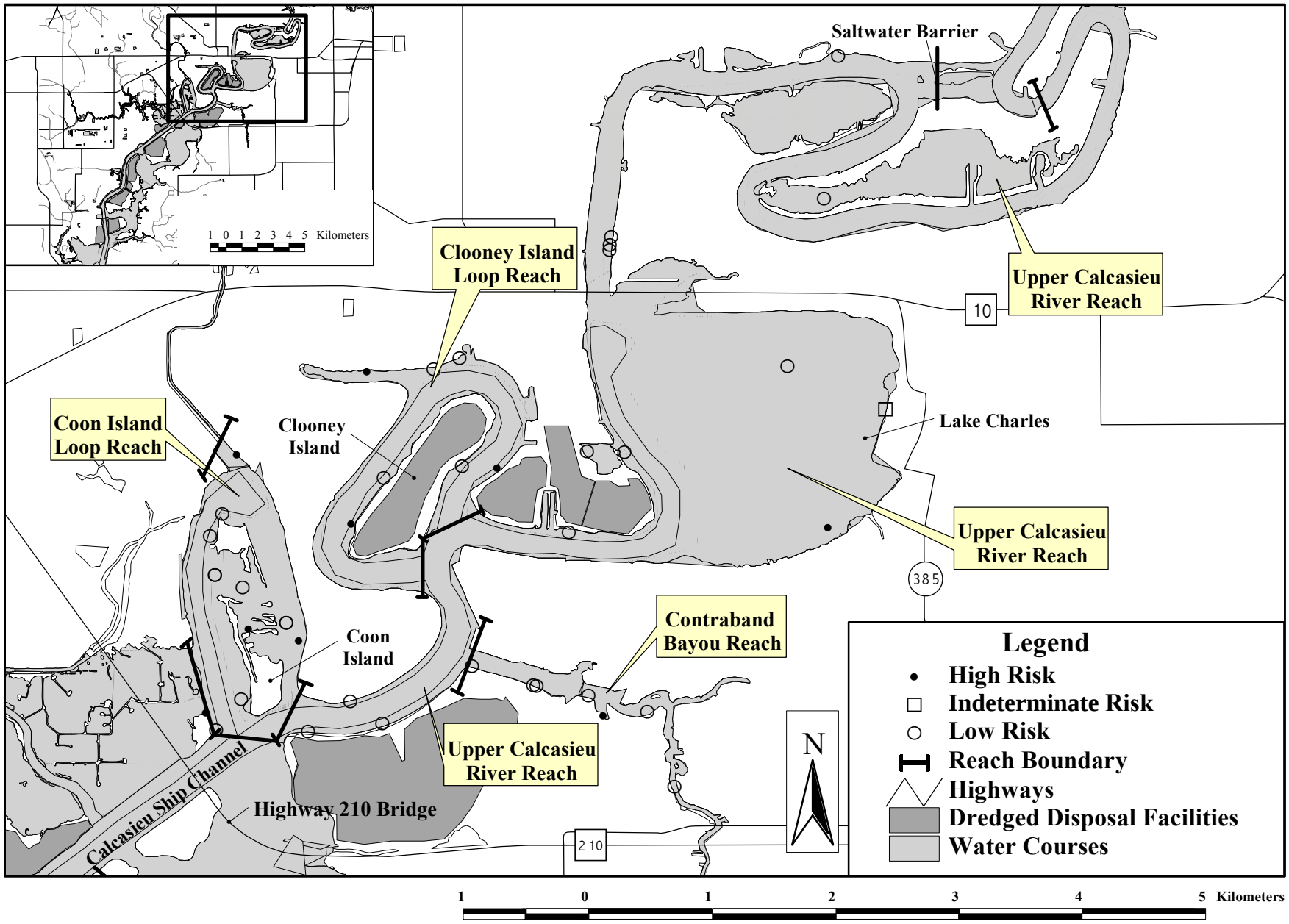

Figure D-13. **Map of the Bayou d'Inde AOC, showing the reach boundaries and locations of samples that pose low, indeterminate or high risk to aquatic plants considering multiple lines of evidence.**

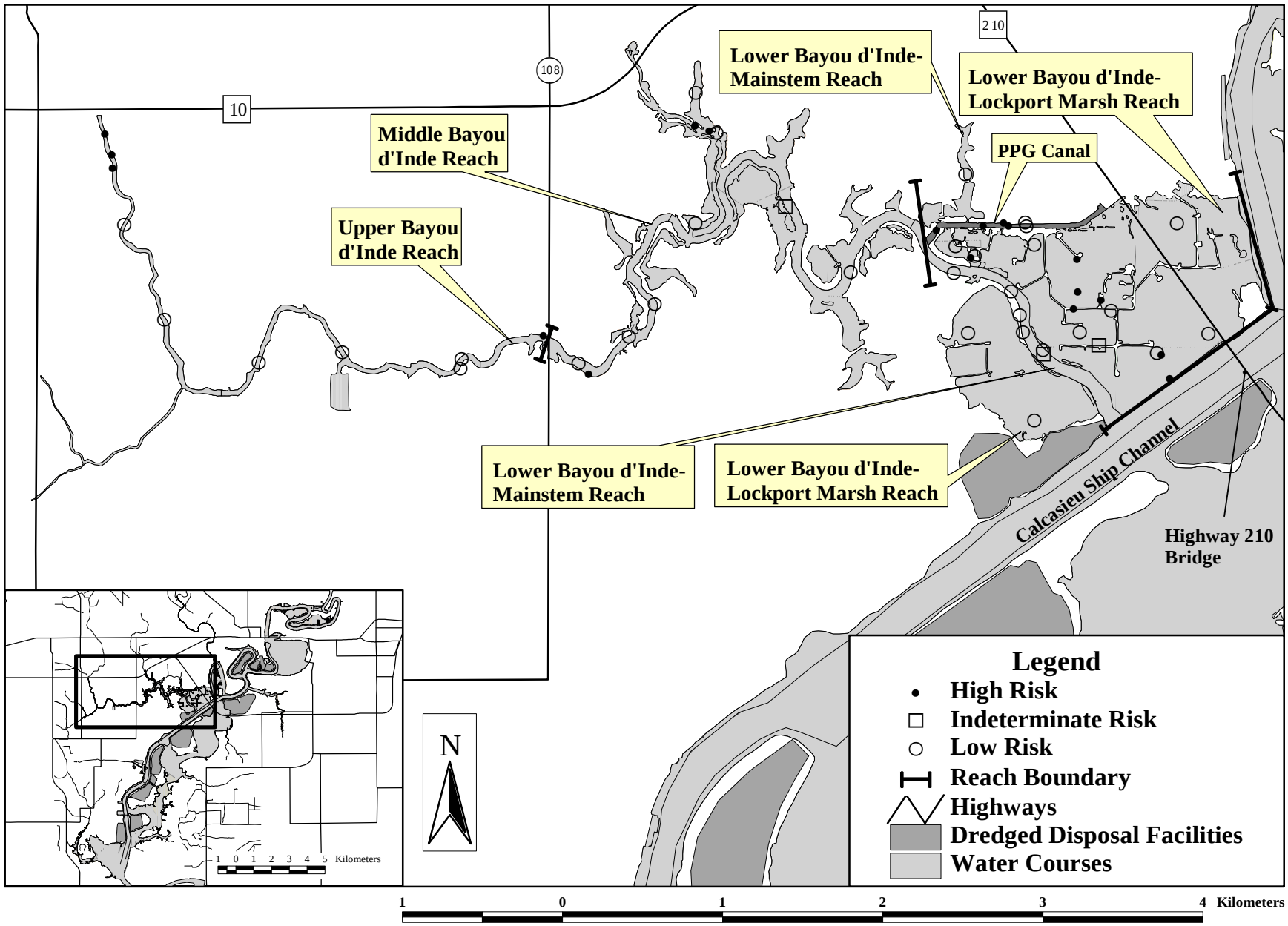

Figure D-14a. **Map of the upper Middle Calcasieu River AOC, showing the reach boundaries and locations of samples that pose low, indeterminate or high risk to aquatic plants considering multiple lines of evidence.**

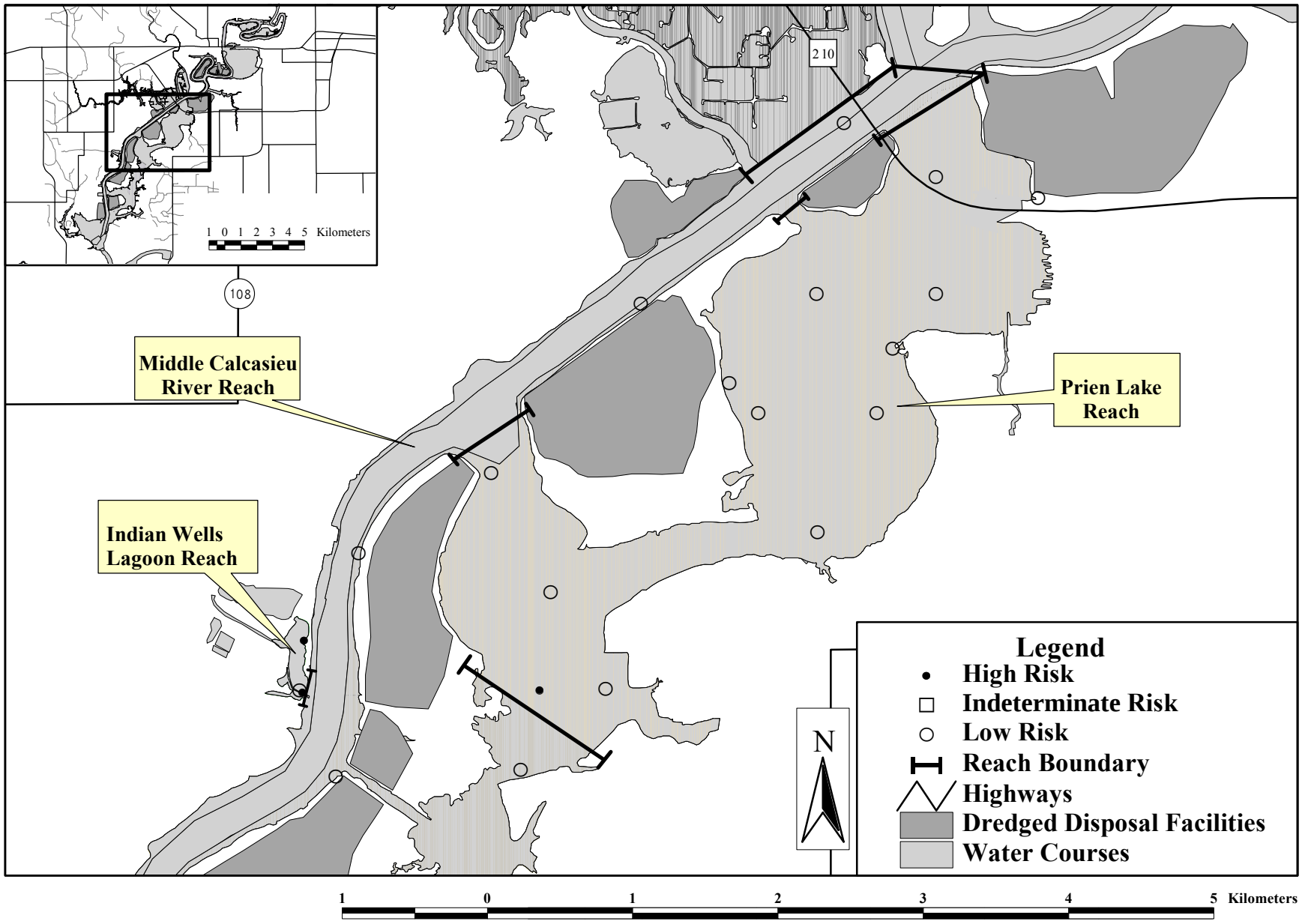

Figure D-14b. Map of the lower Middle Calcasieu River AOC, showing the reach boundaries and locations of samples that pose low, indeterminate or high risk to aquatic plants considering multiple lines of evidence.

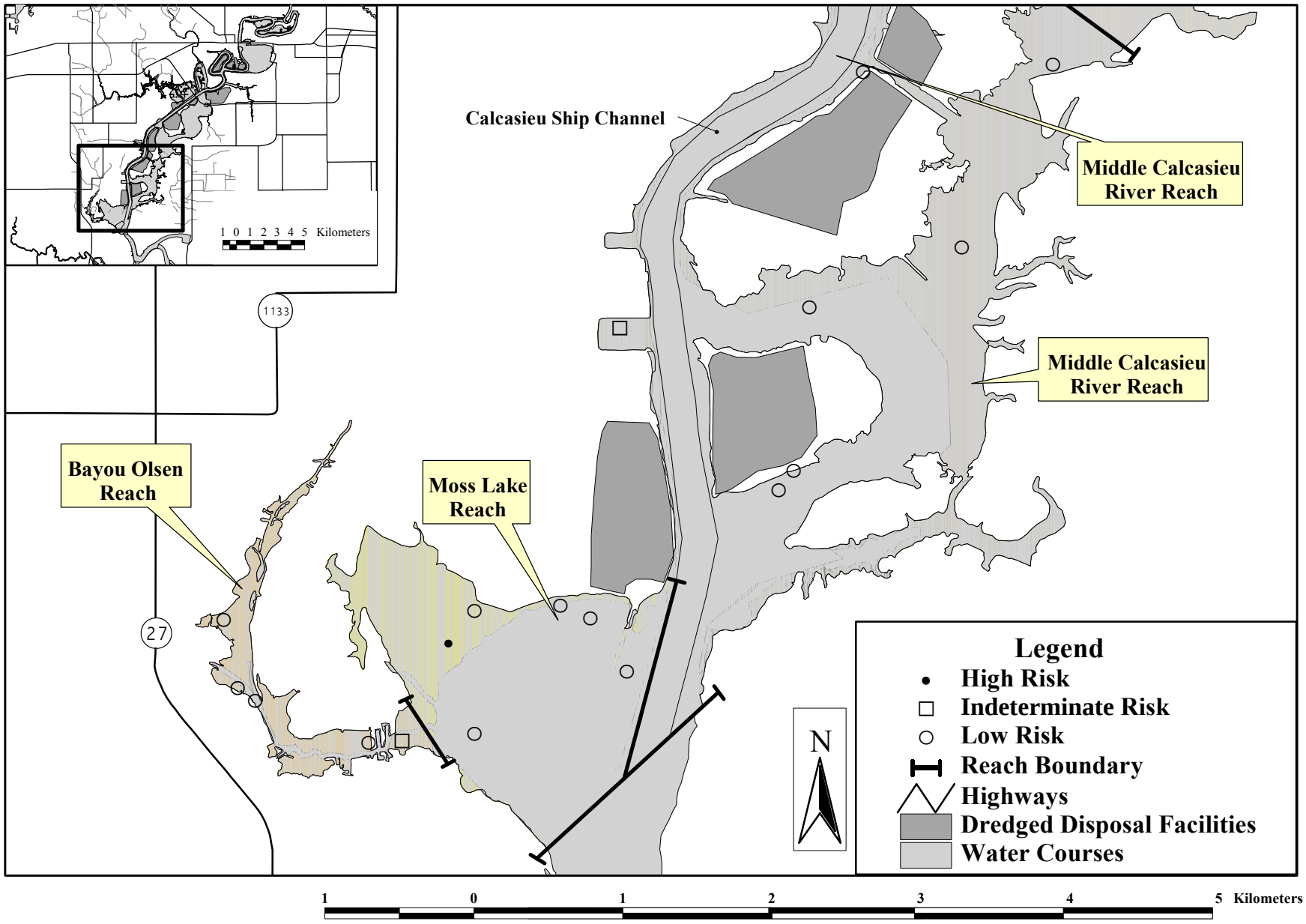

Figure D-15. Map of the Reference Areas, showing the reach boundaries and locations of samples that pose low, indeterminate or high risk to aquatic plants considering multiple lines of evidence.

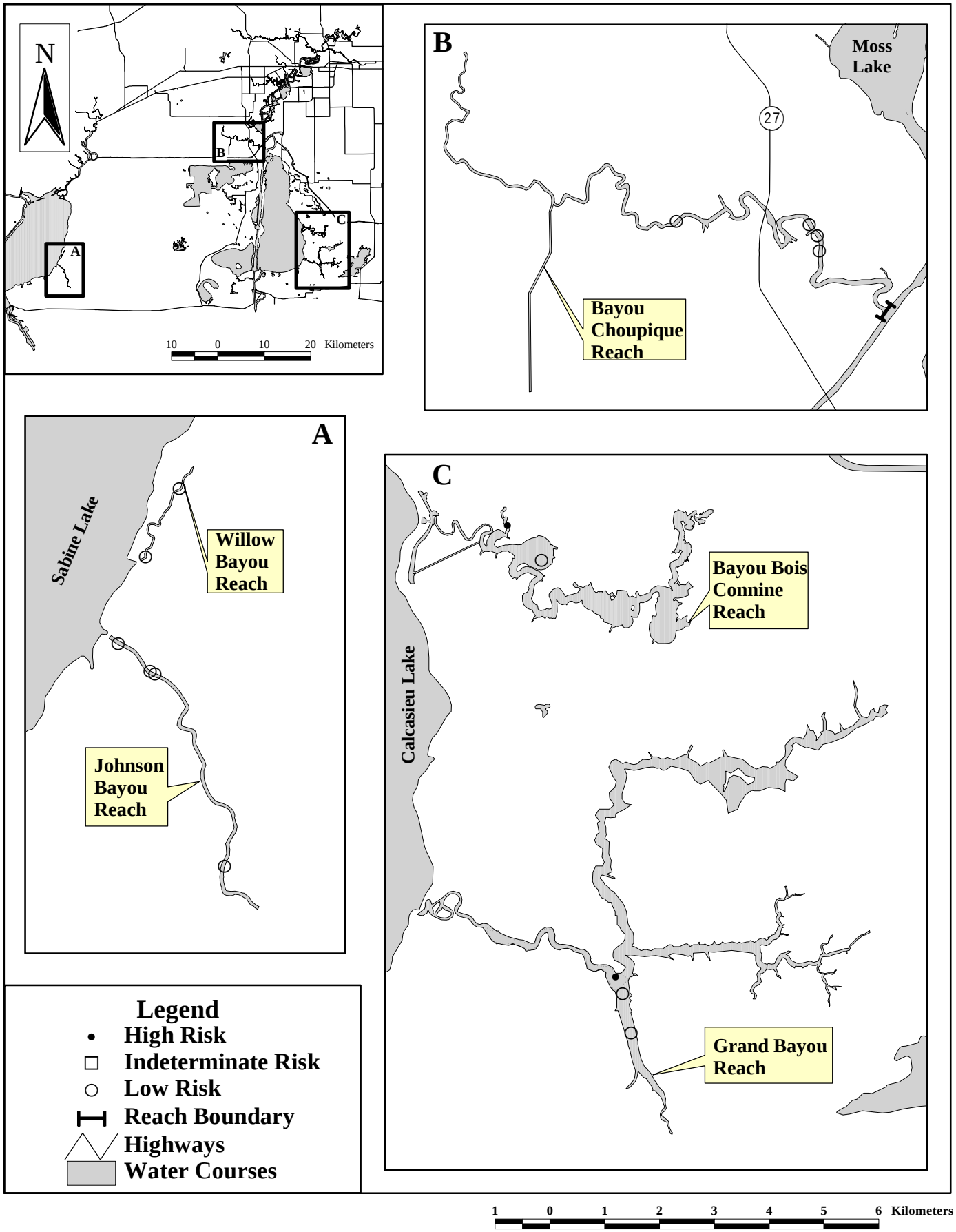

Figure D-16. Cumulative frequency distribution of benz(a)anthracene in pore-water samples evaluated using the results of 96-h pore-water toxcity tests with the alga, *Ulva fasciata* (endpoints: germling cell number, germling length or percent germination). The dashed line represents the selected benchmark for benz(a)anthracene.